

# Baking Powders for Quick Work, Variety and Uniform Products

By Anne Lewis Pierce and Anna Stanley, Institute Staff

## The Leading Types of Baking Powders: Their Standard Strength and What Is in Them

ABOUT no food has there raged a more pitiless controversy than over the seemingly simple bland baking powder.

The two outstanding points about baking powder are:

(1) How much leavening power has it? That is, how much available carbon dioxide is formed when heat and moisture set it free to "raise" the cake or biscuit?

(2) What is left in the bread by the baking powder when its work is done? What does it add to the food, and is it helpful, or harmful, or negligible?

### Standard "Raising" Power

As to the first point, the government standard requires that a baking powder of any kind must have at least 12 per cent of available carbon dioxide. The powder examined contained at least 12.5 per cent, the exception of Rumford, which contained 12.8 per cent on the first test, and Royal, 12.7 per cent on the first test. The other powders named ran below the standard (giving 8 to 10 per cent) on the sample, but showed 12.5 per cent on a second sample.

Baking powder may lose strength standing. Don't buy a rusty, weatherbeaten can. It would be an excellent plan to have a date on a baking powder can, as on long standing some of its "power" may be lost. A faulty can, or bad storage conditions, too much heat or moisture may deteriorate baking powder more than age under more favorable conditions, so do not jump at conclusions from one can, so to speak. A powder with 12.5 of carbon dioxide available will give good cooking results.

### What's in It?

As to the second point of what baking powder is and what it does in the food when its work is done. This question was studied carefully under the food law and the general conclusion reached was that very small amount of slightly caustic substances was left in the food in all cases, but not enough to be harmful under normal conditions, unless served to the exclusion of other breadstuffs, or carelessly eaten.

In the old days the housekeeper

## Summing Up of the Controversial Points

The long and short of the matter is that all baking powders leave a very small residue in the breads made from them which is cathartic in its nature, but present in such small amounts as to be negligible from a health point of view unless eaten in large quantities.

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had to measure out her own acid (sour milk or molasses or cream of tartar) and then baking soda (alkali), which when moist and warm reacted and set free the gas that aerated or raised the bread. And woe betide if the two were not well balanced and the "saleratus" added a disagreeable taste to a heavy, soggy bread. Our commercial baking powders are merely an acid and an alkaline substance mixed together in the right proportions to form the desired amount of gas, and bound together, or, rather, separated, by some inert substance, like starch, so that they cannot combine and set free the gas before it is wanted.

### Distinctive Features

The difference between baking powders lies in the substances selected to play the rôle of acid and alkali and the purity and quality of the materials used. Before the food law days baking powders often contained arsenic or lead, the contamination taking place in the vats in which they were made, or mineral matter, like talc, might be added to dilute them. The powders examined are all free from any faults of this kind and are true to type.

That is, the phosphate powders, such as the Rumford, used calcium and phosphate, obtained from bone or rock. A slightly different type of powder is that using a mono-sodium phosphate instead of the calcium. This is still a phosphate powder, but is made from highly purified materials and leaves a somewhat different residue in the finished loaf. Ryzon, a comparatively new product, represents this type.

The tartrate powders depend on tartaric acid, obtained from the lees of wine, the potassium tartrate of the grape being deposited during the fermentation.

The alum powders get their acidity from soda alum, which theoretically has been considered the most objectionable type, since it is a mineral non-food substance at best, but it was declared by the government to be, like the other powders, non-injurious, except for a slight cathartic action when used in large quantities. The alum powders are cheaper, also, and stand up well as far as holding their "raising" power is concerned. No alum powders were considered in this test.

### Prices and Quality

Third, the products examined and approved are true to type, free from adulteration and contain the standard amount of leavening power. We do not consider that it is possible to distinguish between them as to actual healthfulness or efficiency if properly used and fresh samples are purchased. And it is interesting to observe that they vary quite widely in price, "as every woman knows," from the phosphate powders, at 16 cents a half pound, to the cream of tartar powders, at 30 cents to 35 cents, with the mono-sodium phosphate powder at 30 cents to 40 cents. The source of the raw materials causes this difference in price—some are more highly purified and more costly than others; and now that wines are no longer to be made this may make a further difference in the cost of the tartrate powders.

The alum powders, we believe, are still cheaper, and there are mixtures of the phosphate and alum powders which also we have not considered.

Use any one of the powders approved and listed with skill and discretion, employing baking powder products for variety and convenience, but not neglecting the yeast breads, and you may enjoy the pleasing results with security as to their healthfulness.

## Who's Who in Foodville

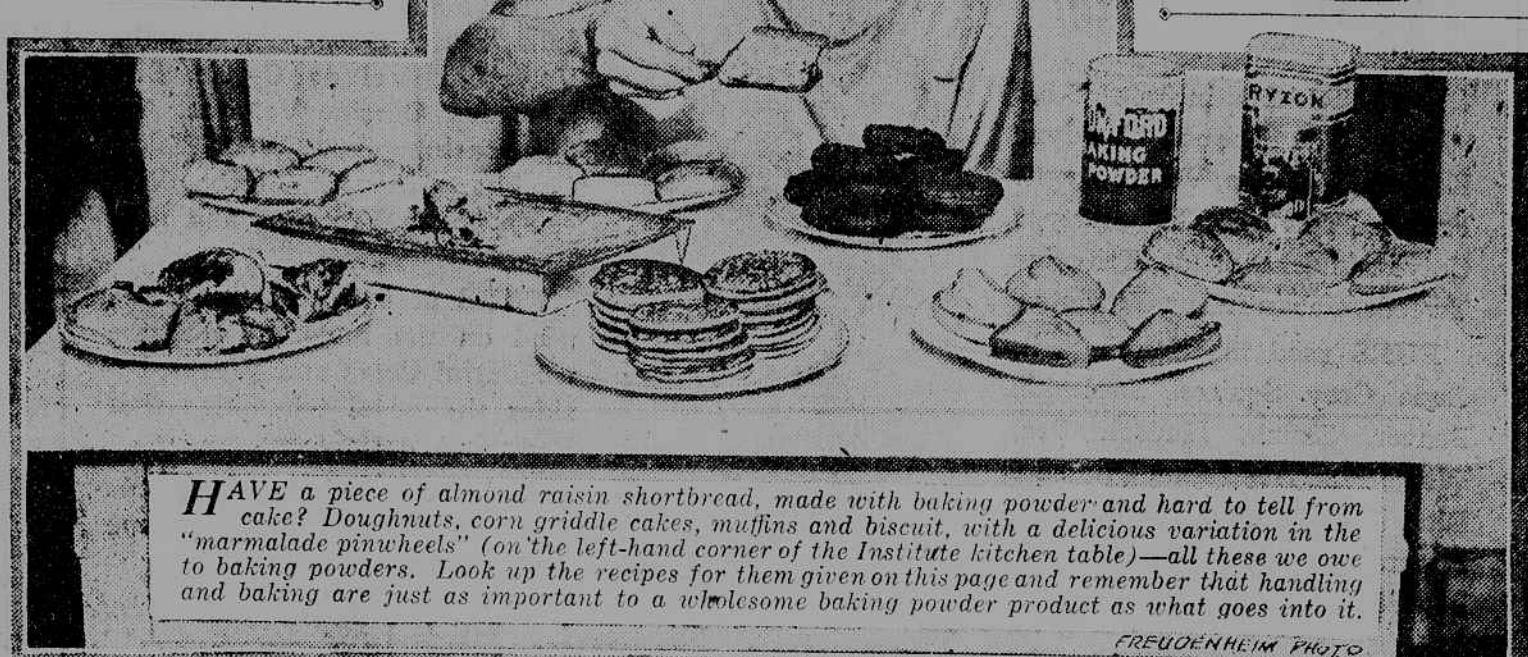


### The Plan of Work

THESE PRODUCTS HAVE BEEN SUBJECTED TO A CHEMICAL TEST AND SHOWN TO BE OF EXCELLENT QUALITY, ACCURATELY LABELED AND FREE FROM ADULTERATION. COOKING TESTS IN THE INSTITUTE LABORATORY HAVE BEEN MADE TO DETERMINE THEIR EDIBILITY AND ADAPTATION TO SPECIAL USES.

THE RESULTS OBTAINED ARE REPORTED IN PART ON THIS PAGE, AND ANY FURTHER INFORMATION DESIRED MAY BE OBTAINED BY APPLICATION TO THE INSTITUTE.

ANNE LEWIS PIERCE,  
Director Tribune Institute



## What to Put in Doughnuts—How to Mix and Fry Them

NOW is the time of the year when doughnuts and coffee have an especial appeal. They are good for breakfast, luncheon or supper. We all have a fondness for a real New England doughnut, but to be perfect it must be made and fried "just so." It must not be too rich, nor must it be greasy soaked.

Do not be too generous with butter, sugar or eggs, as a rich dough absorbs more fat in frying than a plain mixture. This is an excellent recipe:

**New England Doughnuts**  
1 cupful of sugar  
2 tablespoonful of fat  
2 eggs  
1 cupful of milk  
3/4 cupful of flour  
1 tablespoonful of baking powder  
1 teaspoonful of cinnamon  
1 teaspoonful of salt  
1/2 teaspoonful of nutmeg

Cream fat and sugar together, then add the well beaten eggs, milk, and lastly the spices and flour which have been sifted with the baking powder. A very soft dough absorbs more fat than a stiff one, but too much flour makes a doughnut that is not light.

Some time when you have rice potatoes left from dinner save them and make them into doughnuts. They add both to their deliciousness and their keeping qualities.

**Potato Doughnuts**  
1/2 cupful of sugar  
2 tablespoonful of fat  
2 eggs  
1/2 cupful of diced potato (heated)  
2-3 cupful of milk  
3/4 cupful of flour  
1/2 cupful of baking powder  
1 teaspoonful of salt  
1 teaspoonful of cinnamon  
1/2 teaspoonful of nutmeg

Cream butter and sugar. Add the well beaten yolks of the eggs and then the stiffly beaten whites. Stir in alternately portions of the milk and the flour which has been sifted with the spices and the baking powder. Toss on a floured board and roll very thin. Cut in pieces about three inches long by two inches wide. Make four one-inch parallel gashes at equal intervals. Take up by running the fingers through the gashes, toss in fat and fry.

Great care should be taken when frying the doughnuts. Do not fry them too long, and have the fat 185 degrees C. or 365 degrees F. If you have no thermometer use the bread test. When the fat begins to smoke drop in a one-inch cube of soft bread, and if after one minute it is brown the fat is the right temperature.

Doughnuts rolled one-fourth of an inch thick can be fried in about three minutes if they are turned once to brown. A. S.

### Tested and Approved Baking Powders

Cleveland Baking Powder Company, New York  
Cleveland Superior Baking Powder

R. B. Davis Company, Hoboken, N. J.

Davis O. K. Baking Powder

General Chemical Company, Food Department, New York  
Ryzon—The Perfect Baking Powder

Royal Baking Powder Company of New Jersey, New York  
Royal Baking Powder

Rumford Chemical Works,  
Providence, R. I.

Rumford Baking  
Powder



### Krumbled Bran Doughnuts

1 cupful of sugar  
2 tablespoonful of fat  
2 eggs  
1/2 cupful of milk  
2 cupful of krumbled bran  
3/4 cupful of flour  
1/2 cupful of baking powder  
1 teaspoonful of cinnamon  
1/2 teaspoonful of nutmeg

Cream fat and sugar. Add well beaten eggs and spices and then the flour, which has been sifted with the baking powder, should be added alternately with the milk. Lastly add the bran.

**Rich Crullers**  
1/2 cupful of butter  
1 cupful of sugar  
2 eggs  
1/2 teaspoonful of salt  
4 cupful of flour  
3/2 teaspoonful of baking powder  
1 cupful of milk  
1 teaspoonful of cinnamon  
1/2 teaspoonful of nutmeg

Cream butter and sugar. Add the well beaten yolks of the eggs and then the stiffly beaten whites. Stir in alternately portions of the milk and the flour which has been sifted with the spices and the baking powder. Toss on a floured board and roll very thin. Cut in pieces about three inches long by two inches wide. Make four one-inch parallel gashes at equal intervals. Take up by running the fingers through the gashes, toss in fat and fry.

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## Four Woolly Dusters That Scatter No Dust

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THE old feather duster that spread the dust far and near, only to have it settle down in a new place, hardly dares show itself in our twentieth-century sanitary world. But it held on long in the face of disapproval because it was so easy to use, and its handle gave it such an advantage over a cloth held close.

Now come the Barlow wool dusters, symmetrical bundles of soft, woolly skins, with handles of various kinds, according as one wishes to dust floors, walls and lintels, bookcases or automobiles. There is also a special mitt for stove work. They do not spread the dust, but absorb it into their woolly depths.

### For Walls or Floors or Motors

The dusters are all made of the same natural wool skins (we should think from sheep) and are mounted on different frames and given different weights and lengths of handle, according to their use. For instance, the automobile duster examined is of rectangular shape, mounted on a light, flat wire frame, 8 by 3 inches, but the brownish, fluffy wool (looking rather like a Pekinese of high breeding) is 5 inches thick and 7 inches wide by 11 inches long. The handle, in this case attached at the short end, is 9 inches long, furnishing a hand duster that takes the place of its unsanitary feather prototype and is just the thing for the piano, the motor, the bookcase and the furniture.

For hardwood floors there is the duster mounted on a wooden block

3 inches thick by 2 inches wide and 6 inches long. The skins are fastened to it, so that the duster

is 5 by 6 by 10 inches, and the handle (4 feet 5 inches long) is thicker and heavier than that on the wall

duster. The latter is 4 feet 7 inches long and very light and thin, being fastened to the long side of the duster. Also the duster head, which is 3 inches by 8 inches, is fastened to a light wire frame, and so is easily held aloft, and is ideal for cleaning pictures, lintels, picture rails, plate shelves, walls, etc.

Each of the dusters comes in three sizes and the wall brush may be had in five sizes.

The handles screw off from the top of the duster, so that the skins may be easily washed and dried.

These dusters are all easily washed. We did it, using lukewarm, soapy water, and when dried the duster was difficult to tell from the ones that had not been used.

The "stove mitt," or hand duster, is 5 by 8 inches, with the wool clipped to 1 inch in length. Green felt forms the back of the mitten, and it has a loop for hanging up when not in use.

These modern descendants of the feather duster have inherited all of their ancestors' good points (such as length of handle, hand preservation, no reaching and stretching, etc.), and acquired the characteristic of being dust-absorbing and sanitary, which shows that they must have some modern vacuum cleaner blood in them.

Is it not interesting how up-to-date and evolutionary even a duster may be?

Barlow's Wool Dusters.  
Made by the H. P. Barlow Manufacturing Company, Watertown, Conn.



## General Directions and Special Recipes for Getting the Best Results

ONE can scarcely conceive of the culinary world without baking powder. In these days of varied occupations for women we fear there would not be many hot breads, griddle cakes, doughnuts or cakes if this quick leavening agent were not with us. Its speed and cheapness make it the mainstay of the light housekeeper and the products are delicious.

However, there is almost no realm of cookery in which so many failures occur as in the using of baking powder. And it is a food which in order to be digestible should be very thoroughly cooked. There are a few general directions to be remembered always in the making of quick breads, as to proportions of flour, liquid, baking powder and shortenings.

### Biscuits First

For baking powder biscuits the rule is one-half as much liquid as flour, from one to two tablespoonful of shortening and two teaspoonful of baking powder to each cupful of flour used. These biscuits are rolled out on a board, but drop biscuits may also be made by the addition of about three-fourths as much liquid as flour. They should be baked in a quick oven (400 degrees F.) for from twelve to fifteen minutes.

The drop biscuits may be varied by adding grated cheese, raisins or currants. And the rolled biscuits may be made into pinwheel biscuits of various kinds. Simply roll the dough out three-eighths of an inch in thickness and spread with any desired filling. Roll up and cut into three-fourths-inch pieces. Cinnamon and sugar mixed and spread is the usual type of pinwheel biscuit, but jams, marmalades or chopped nuts are delicious also. A mixture of currants, raisins and chopped citron gives a very nice biscuit to serve with afternoon tea.

We made a baking powder almond shortbread this week in the Institute which, when served hot, is delicious with coffee. It is very easy to make. Beat three eggs very light, add one cupful of sugar, one cupful of raisins and almonds mixed and two cupful of flour which has been sifted with four teaspoonful of baking powder and one-half teaspoonful of salt. Bake in a quick oven (400 degrees Fahrenheit) for about twenty-five minutes.

The simple basic recipe for baking powder biscuits for four persons is as follows: Two cupful of flour, four teaspoonful of baking powder, two tablespoonful of fat, one cupful of milk and one-half teaspoonful of salt. This is for biscuits which are to be rolled out.

### Maple Rye Biscuits

Sift together two cupful of rye and two cupful of white flour with four teaspoonful of baking powder and one-half teaspoonful of salt. Add two cupful of milk, one well beaten egg and two tablespoonful of fat. Work the dough until smooth, place on a well floured board and roll out and cut into rounds, two for each biscuit. Spread one side with butter and scraped maple sugar and place together sandwich fashion. Leave in a warm place to rise for about ten minutes. Bake in a quick oven (400 degrees Fahrenheit) for twenty minutes.

### Oatmeal Biscuits

Pour one cupful of milk over one cupful of oatmeal and allow to stand ten minutes. Sift together one and one-half cupful of flour which has been sifted with three teaspoonful of baking powder and one-half teaspoonful of salt. Work in two tablespoonful of fat with fingers, then add the milk and oats

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mixture. Mix quickly and toss on a floured board. Cover entire surface of dough with flour, roll and cut out as for baking powder biscuits. Brush tops with milk and bake twelve minutes in a quick oven (400 degrees Fahrenheit). This makes about nine biscuits.

Griddle cakes stand next in popularity in the baking powder series and their proportions are two-thirds as much liquid as flour, one teaspoonful of baking powder to each cup of flour, one tablespoonful of fat to each two cupful of liquid and one or two eggs to three cupful of flour. Plain wheat flour cakes are good, but we think corn meal cakes far surpass them when served with syrup and little browned sausages or crisp, curly bacon.

We made them also this week according to the following recipe:

### Corn Meal Griddle Cakes

Sift one cupful of corn meal with one and one-fourth cupful of flour, together with four teaspoonful of baking powder, one-half teaspoonful of salt and two tablespoonful of sugar. Add to this mixture very gradually so as not to lump one and one-half cupful of milk, one beaten egg and two tablespoonful of fat. Beat well and bake in the usual fashion on a hot griddle. Small cakes of this kind are much more attractive than large ones.

In baking griddle cakes either an aluminum, soapstone or iron griddle can be used, or, in fact, even an ordinary frying pan, if you are not fortunate enough to have a griddle. Be very cautious in the use of grease, the less the better. And have your griddle smoking hot before pouring on the batter. Always drop from the tip of the spoon, not the side, in order to insure a well rounded cake. The cakes are ready to turn when they are full of bubbles. They should be turned only once if you would have light, delicious cakes.

### Muffins—Plain and Otherwise

The proportions for muffins are one cupful of milk, two cupful of flour, and from one to three tablespoonful of fat. The flour and baking powder should be sifted several times in making muffins, so that the crumb will be light and delicate. They should not be beaten very much, only enough to mix the ingredients well. Bake in a hot oven (375 degrees Fahrenheit) for about twenty-five minutes.

### Pecan Muffins

Sift one-half cupful of graham flour with two cupful of corn meal, three teaspoonful of baking powder, one tablespoonful brown sugar and one-half teaspoonful of salt. Add one well beaten egg which has been mixed with one and one-half cupful of milk. Beat well and lastly add two tablespoonful of fat, together with one-half cupful of chopped pecans. Bake in a quick oven (400 degrees Fahrenheit) for twenty-five minutes.

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